Sent on: Saturday, March 30, 2019 2:57:44 PM

To: Non-Responsive

CC: Miller, Kristina <miller.kristina@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>

Non-Responsive

Subject: 9AM Status Meeting 3/30/19 Attachments

Attachments: Maps for Mavin Camras School.pdf (283 KB), MarvinCamrasSchool HgMonitoring Survey Log 3-28-

19.xlsx (25.48 KB)

Thank you guys for the great discussion this morning. Please feel free to reach out if you have any questions or materials we can provide. Attached is the digital map and excel doc. of yesterday's side by side and initial survey document from 3/27/19.

Non-Responsive

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1 of 6 Next > X



From: Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Sent on: Monday, April 8, 2019 9:28:56 PM

Non-Responsive To:

Non-Responsive

Non-Responsive

Hassan, Jacob hassan.jacob@epa.gov">hassan, Jacob hassan.jacob@epa.gov; Haag, Daniel Haag, Daniel@epa.gov; Kondreck,

Robert < kondreck.robert@epa.gov>

Camras- Final Mercury Screening **Subject:** Attachments: Camras- Final sweep.xlsx (48.67 KB)

Hi all,

CC:

Attached is the information from the final sweep we did of the school. This is in addition to the 8 hour TWA data summary I sent over earlier.

A note- The discrete monitoring column is the measurements at specific locations within a room, and the locations with only one reading in them. For rooms that had multiple discrete readings in them, the Avg. Monitoring measurement for a room column will give the average value for the whole room. Let me know if this doesn't make sense.

We'll be working on more summary tables as well still for our final report. If you'd like to discuss any additional tables, feel free to give me a call so we can incorporate requests.

Thank you,

Kristina Miller

On-Scene Coordinator U.S. Environmental Protection Agency 77 W. Jackson Blvd. (SE-5J) Chicago, IL 60604 (312) 353-1057 (office)

(312) 237-5685 (cell) Miller.Kristina@epa.gov From: Miller, Kristina <miller.kristina@epa.gov>
Sent on: Tuesday, April 2, 2019 6:04:30 PM

To: Non-Responsive

Subject: Camras Monitoring Data

Attachments: Modified 8-Hour Hg Screening.xlsx (30.83 KB),

MarvinCamras_ClearanceScreeningResults_20190402.xlsx (29.01 KB),

Fig4 PlaygroundMonitoring Results.pdf (857.84 KB)

Non-Responsive

Attached is monitoring data from the past day, in addition to the playground data.

Let me know if you have any questions!

Thank you,

Kristina Miller

On-Scene Coordinator
U.S. Environmental Protection Agency
77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604 (312) 353-1057 (office) (312) 237-5685 (cell) Miller.Kristina@epa.gov

Previous 2 of 6 Next >

From: Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Sent on: Monday, April 8, 2019 6:19:52 PM

Non-Responsive Non-Responsive To:

Non-Responsive

CC: Haag, Daniel Hassan, Haag, Daniel @epa.gov">Hassan, Haag, Daniel @epa.gov; Kondreck, Robert Kondreck.robert@epa.gov; Hassan,

Jacob <hassan.jacob@epa.gov>

Camras Response- Summary of 8 Hr TWAs **Subject:**

Attachments: MarvinCamras 8 Hr TWA Summary.xlsx (13.27 KB)

Good afternoon,

Please find the attached summary of all of the 8 hour TWAs taken at Camras during the response. All TWAs are breathing space.

Note: each one is labeled whether it was a continuous 8 hour run with the Lumex or whether it was the discrete check (aka the "modified" method that we were using from the guidebook).

As a reminder, the clearance level set by CDPH was 1000 ng/m3 in a child's breathing space.

We're working on other summary tables as well. I'll forward along as I receive them.

Thank you,

Kristina Miller

On-Scene Coordinator U.S. Environmental Protection Agency 77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604

(312) 353-1057 (office)

(312) 237-5685 (cell)

Miller.Kristina@epa.gov

From: Haag, Daniel <Haag.Daniel@epa.gov> on behalf of Haag, Daniel

Sent on: Sunday, March 31, 2019 7:40:28 PM

Johnson, Mark < johnson.mark@epa.gov>; Non-Responsive

Miller, Kristina <miller.kristina@epa.gov>; Non-Responsive CC:

Non-Responsive

Subject: Clearance Screening Approach for Camras Elementary

All,

Per our call, below is the proposed approach for clearance sampling at Camras Elementary:

- 1. Clearance sampling via Lumex (continuous 8HR data-logged)
 - A. Rooms impacted by elemental mercury
- Room 213a (ground zero closet area where monometer was located)
- Room 211
- Room 318d
- Cafeteria
- B. Areas with the most potential for cross tracking of contamination
- Room 213 (not impacted by elemental mercury, but room is adjacent to the 213/213a with shared corridor. Room is also a 3rd grade homeroom)
- Hallway outside of 211/213
- Gym (post removal and disposal of bagged mercury-contaminated debris)
- 2. Clearance sampling via Lumex (averaging of discrete readings over 8HR period as described in National Elemental Mercury Response Guidebook, March 2019, Appendix B – ERT SOP for Clearance Screening)
- Room 309
- Room 311
- Room 318c
- Hallway 3rd Floor North outside 318c/318d
- Hallway 3rd Floor South outside 309/311
- Front Entrance (used as CRZ)
- 3. Clearance sampling via Lumex (standard screening)
- · All other non-impacted rooms throughout school. All of these rooms were preliminary screened on Wednesday (3/27). This final screening will be performed to ensure that there was no cross-tracking of contamination during the remediation operations.

Please let us know your thoughts.

Thx

Dan

Dan Haag, CHMM

On-Scene Coordinator U.S. EPA, Region 5 Superfund Emergency Response Branch 77 West Jackson Blvd (SE-5J) Chicago, IL 60604 (o) 312.886.6906

(c) 312.882.1913 haag.daniel@epa.gov



From: Haag, Daniel < Haag. Daniel@epa.gov> Sent on: Saturday, March 30, 2019 10:05:20 PM

To: Non-Responsive

CC: Miller, Kristina <miller.kristina@epa.gov>

FW: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx **Subject:** Attachments: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx (10.46 KB)

Ion-Responsive

FYI –

These are the exceedances that I observed with START during our screening of the 2nd floor classrooms that were not screened as part of the initial screening on Wednesday night. Also included on this spreadsheet are any exceedances from our post remediation screening this afternoon of classrooms 309, 311, 318c, and 213.

We will be going over these items with SET at the 5:30 meeting.

Thx Dan

Non-Responsive

Sent: Saturday, March 30, 2019 4:48 PM To: Haag, Daniel <Haag.Daniel@epa.gov> Cc: Miller, Kristina <miller.kristina@epa.gov>

Subject: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx

Areas with elevated levels during sweep of 2nd and 3rd floors.

Ion-Responsive

From: Haag, Daniel < Haag. Daniel @epa.gov > on behalf of Haag, Daniel

Sent on: Saturday, March 30, 2019 10:05:20 PM

To: Non-Responsive

CC: Miller, Kristina <miller.kristina@epa.gov>

Subject: FW: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx **Attachments:** Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx (10.46 KB)

Ion-Responsive

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We will be going over these items with SET at the 5:30 meeting.

Thx Dan

From: Non-Responsive

Sent: Saturday, March 30, 2019 4:48 PM
To: Haag, Daniel < Haag. Daniel@epa.gov>
Cc: Miller, Kristina < miller.kristina@epa.gov>

Subject: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx

Areas with elevated levels during sweep of 2nd and 3rd floors.

Non-Responsive

Miller, Kristina <miller.kristina@epa.gov> From:

Sent on: Tuesday, April 2, 2019 1:38:08 PM

To: Non-Responsive

Subject: FW: Modified 8-Hour Results

Attachments: Modified 8-Hour Hg Screening.xlsx (30.83 KB)

Kristina Miller

On-Scene Coordinator

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604

(312) 353-1057 (office)

(312) 237-5685 (cell)

Miller.Kristina@epa.gov

From: Non-Responsive

Sent: Tuesday, April 02, 2019 8:38 AM

To: Haag, Daniel <Haag.Daniel@epa.gov>; Miller, Kristina <miller.kristina@epa.gov>

Non-Responsive

Subject: RE: Modified 8-Hour Results

Correct version attached.

Non-Responsive

From: Non-Responsive

Sent: Tuesday, April 2, 2019 08:03

To: Haag, Daniel < haag.daniel@epa.gov >; 'Miller, Kristina' < miller.kristina@epa.gov >

Non-Responsive

Subject: Modified 8-Hour Results

See attached for the modified 8-hour results, and all the spot check clearance screening results.

The 8-hour continuous screening clearance files will be available after the current run is completed.

Ion-Responsive

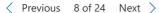
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From: Mendoza, Ramon <mendoza.ramon@epa.gov> on behalf of Mendoza, Ramon

Sent on: Tuesday, April 23, 2019 4:28:58 PM Miller, Kristina <miller.kristina@epa.gov> Subject: FW: voicemail followup - residential gameplan

Last one.

From: Non-Responsive

Sent: Sunday, March 31, 2019 6:45 PM

To: Mendoza, Ramon <mendoza.ramon@epa.gov> Subject: voicemail followup - residential gameplan

Hi Ramon.

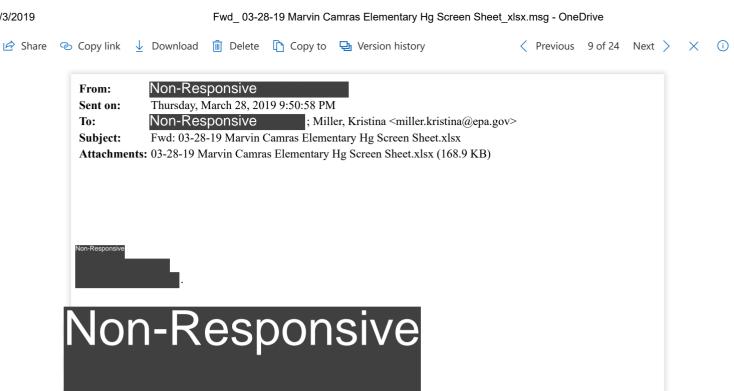
I just left a long-winded voicemail, which probably doesn't makes sense since it's about an email that failed to send. So to clarify, I'm reaching out to CPS first thing in the morning about getting the school homeroom list. Mike from CDPH noted that we might want to regroup tomorrow morning before continuing the potential residential screening of the students in the same situation as Non-Responsive (added Friday evening). We can discuss more onsite.

Hope that makes sense, and sorry for the confusing voicemail!

Non-Responsive

Non-Responsive

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Haag, Daniel < Haag. Daniel @epa.gov > on behalf of Haag, Daniel From:

Sent on: Tuesday, April 2, 2019 2:52:45 PM

To: Non-Responsive

CC: Miller, Kristina <miller.kristina@epa.gov>

Subject: Fwd: Modified 8-Hour Results

Attachments: Modified 8-Hour Hg Screening.xlsx (30.83 KB), ATT00001.htm (168 Bytes)

Sent from my iPhone

Begin forwarded message:

Non-Responsive

Date: April 2, 2019 at 8:37:38 AM CDT

To: "Haag, Daniel" < haag, daniel@epa.gov >, "Miller, Kristina" < miller.kristina@epa.gov >

Subject: RE: Modified 8-Hour Results

Correct version attached.

lon-Responsive

Non-Responsive

Sent: Tuesday, April 2, 2019 08:03

To: Haag, Daniel < haag.daniel@epa.gov >; 'Miller, Kristina' < miller.kristina@epa.gov >

Non-Responsive

Subject: Modified 8-Hour Results

See attached for the modified 8-hour results, and all the spot check clearance screening results.

The 8-hour continuous screening clearance files will be available after the current run is completed.

on-Responsive

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From:

(i)

Sent on: Tuesday, April 2, 2019 3:52:10 PM

To: Non-Responsive

Subject: Fwd: Playground Results Figure

Attachments: Fig4 PlaygroundMonitoring Results.pdf (857.84 KB), ATT00001.htm (178 Bytes)

Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Kristina Miller

On-Scene Coordinator

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604 Office: (312) 353-1057 Fax: (312) 692-2406 Cell: (312) 237-5685 Miller.Kristina@epa.gov

Begin forwarded message:

Non-Responsive

Date: April 2, 2019 at 10:36:10 AM CDT

To: "Haag, Daniel" < haag, daniel@epa.gov >, "Miller, Kristina" < miller.kristina@epa.gov >

Cc: "Hassan, Jacob" < hassan.jacob@epa.gov >, Non-Responsive

Subject: Playground Results Figure

See attached for playground results. Blank areas had playground equipment obstructions.

n-Responsive

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Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina From:

Sent on: Tuesday, April 2, 2019 3:56:00 PM

Non-Responsive To:

Subject: Fwd: Playground Results Figure

Attachments: Fig4 PlaygroundMonitoring Results.pdf (857.84 KB), ATT00001.htm (178 Bytes)

Kristina Miller

On-Scene Coordinator

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604 Office: (312) 353-1057 Fax: (312) 692-2406 Cell: (312) 237-5685 Miller.Kristina@epa.gov

Begin forwarded message:

Non-Responsive

Date: April 2, 2019 at 10:36:10 AM CDT

To: "Haag, Daniel" < haag, daniel@epa.gov >, "Miller, Kristina" < miller.kristina@epa.gov >

Cc: "Hassan, Jacob" < hassan.jacob@epa.gov >, Non-Responsive

Subject: Playground Results Figure

See attached for playground results. Blank areas had playground equipment obstructions.

on-Responsive

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Previous 13 of 24 Next >

Non-Responsive From:

Sent on: Monday, April 1, 2019 7:58:57 PM

To: Non-Responsive

Miller, Kristina <miller.kristina@epa.gov>; Non-Responsive CC:

Subject: Initial Survey Data - Marvin Camras

Attachments: MarvinCamrasSchool HgMonitoring Survey Log 3-28-19.xlsx (30.35 KB)

Attached is the initial survey data.

- Can you please review the data and clean-up if possible. Also can you provide this to Rob Kondreck when he arrives for his use over the evening.

Non-Responsive

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From: Non-Responsive

Sent on: Saturday, March 30, 2019 9:48:11 PM

To: Haag, Daniel < Haag. Daniel @epa.gov>

CC: Miller, Kristina < miller.kristina@epa.gov>

Subject: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx

Attachments: Marvin Camras 2nd and 3rd Floor Areas to Address.xlsx (10.46 KB)

Areas with elevated levels during sweep of 2nd and 3rd floors.

Non-Responsive

Sent on: Tuesday, April 2, 2019 10:22:55 PM

To: Non-Responsive

CC: Haag, Daniel < Haag. Daniel @epa.gov>; Miller, Kristina < miller.kristina@epa.gov>

Marvin Camras 8-hr TWA Lumex Data **Subject:**

Attachments: MarvinCamras ClearanceScreeningResults 20190402.xlsx (29.01 KB)

Attached is the excel sheet that has the calculated maximum 8-hr TWA for Rooms 213, 318D, and the hallway outside 211/213. I will follow up with the TWAs for Room 211 and 213A later tonight once completed. I will also send the raw data files for each 8-hr run.

Non-Responsive

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Hi Kristina,

Subject:

Summary table of Hg monitoring recorded via Survey123 is attached. If you would like any formatting changes or anything like that just let me know.

Thanks,

Ion-Responsive

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Please consider the environment before printing. Read more

Marvin Camras School Hg Monitoring Summary Attachments: MarvinCamrasSchool_HgMonitoringLog_20190328.xlsx (19.66 KB)



Sent on: Tuesday, April 2, 2019 1:02:54 PM

To: Haag, Daniel < Haag. Daniel@epa.gov>; Miller, Kristina < miller.kristina@epa.gov>

CC: Non-Responsive

Subject: Modified 8-Hour Results

Attachments: Modified 8-Hour Hg Screening.xlsx (27.97 KB),

MarvinCamras ClearanceScreeningResults 20190402.xlsx (29.01 KB)

See attached for the modified 8-hour results, and all the spot check clearance screening results.

The 8-hour continuous screening clearance files will be available after the current run is completed.

Thanks,

on-Responsive

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Tuesday, April 2, 2019 3:36:10 PM Sent on:

Haag, Daniel < Haag. Daniel@epa.gov>; Miller, Kristina < miller.kristina@epa.gov> To:

CC: Hassan, Jacob , Non-Responsive

Subject: Playground Results Figure

Attachments: Fig4_PlaygroundMonitoring_Results.pdf (857.84 KB)

See attached for playground results. Blank areas had playground equipment obstructions.

Ion-Responsive

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From: Zintak, Leonard <zintak.leonard@epa.gov> on behalf of Zintak, Leonard

Sent on: Wednesday, March 27, 2019 2:28:12 AM

R5 ER Notification List < R5 ER Notification List@epa.gov>

CC: Miller, Kristina <miller.kristina@epa.gov>; Kondreck, Robert <kondreck.robert@epa.gov>; Maritote,

John <maritote.john@epa.gov>

Subject: R5 ER Notification #1 - Camras School Mercury Spill, Chicago, Cook County, Illinois

Region 5 ER Notification #1: Camras School Mercury Spill, Chicago, Illinois

Report as of 2100 on 3/26/19

Overview: The City of Chicago school district requested EPA assistance in investigating a release of mercury at the Camras School at 3000 N. Mango St in Chicago, IL. A broken barometer containing mercury was discover this afternoon. Several students may have come into contact with the mercury.

State, Local, and other Federal Agency Action: The Chicago Fire Department and Health Department have been conducting an investigation and have detected elevated levels of mercury on their air monitoring instruments inside the school. The extent of contamination is currently unknown.

EPA Actions: OSC Kristina Miller is responding with the START contractor to assist with the assessment and cleanup.

Media Interest: None known at this time.

EPA Region 5 OSC contact: Kristina Miller, 312-237-5685

Len Zintak **On-Scene Coordinator** U.S. EPA Region 5 Chicago, Illinois (312) 886-4246 office (312) 353-2318 24-hr Emergency zintak.leonard@epa.gov

From: Haag, Daniel <Haag.Daniel@epa.gov> on behalf of Haag, Daniel

Sent on: Thursday, March 28, 2019 3:23:15 AM

Kondreck, Robert kondreck, Robert@epa.gov; R5 ER

Notification List < R5 ER Notification List@epa.gov>

CC: Miller, Kristina <miller.kristina@epa.gov>; Maritote, John <maritote.john@epa.gov>; Mendoza,

Ramon <mendoza.ramon@epa.gov>

Subject: R5 ER Notification #3 - Camras School Mercury Spill, Chicago, Cook County, Illinois

Region 5 ER Notification #3: Camras School Mercury Spill, Chicago, Illinois (NRC Report #1241158)

Report as of: 2215 hrs CST, March 27, 2019

Overview: Students were discovered handling mercury by Chicago Public School District (CPS) staff at Camras Elementary School located at 3000 N. Mango St in Chicago, Illinois on March 26, 2019. A broken barometer was the source of the unknown amount of mercury, CPS staff discovered the students handling the mercury and contacted the Chicago Department of Public Health (CDPH) and Chicago Fire Department (CFD) for assistance in evaluating the threat. CPS, CDPH, and CFD determined the students involved in the handling of the mercury, assessed where the mercury could be tracked, and performed targeted screening prior to students leaving for the day. Elevated mercury levels were discovered in various parts of the building during the initial assessment.

On March 27, 2019, CPS temporarily closed Camras School and exercised their contingency plan where students would attend classes at nearby schools. CPS has hired a cleanup contractor to recover mercury beads and remove any residual mercury that was tracked in the school.

State, Local, and other Federal Agency Action: CDPH and CFD initially responded to the mercury spill. Illinois EPA was informed of the mercury spill. The Agency for Toxic Substances and Disease Registry (ATSDR) was contacted for technical assistance and has consulted with CDPH on clearance levels for the school classrooms as well as the students' personal belongings.

EPA Actions: OSC Kristina Miller responded with two Superfund Technical Assessment and Response Team (START) contractors around 2100 hrs on March 26, 2019 to provide technical assistance and assess various parts of the School. Elevated readings were discovered in multiple classrooms and common spaces. CDPH and CPS were notified of these areas.

On March 27, 2019, EPA deployed two OSCs and four START contractors to continue to assist CDPH and CPS in determining the extent of the mercury contamination. EPA is currently assisting CDPH and CPS to determine if mercury has migrated off-site. CPS staff identified 26 students who may have come in contact with elemental mercury. EPA and START conducted screening of those students' personal belongings (backpacks, shoes, and clothing) for mercury vapor. Personal belongings of four students were found to have elevated mercury vapor readings of greater than 10,000 ng/m3, and an additional 11 students had personal belonging with mercury vapor readings between 1,000 – 7,000 ng/m3. CDPH prioritized the residences of these students for additional screening and asked for EPA assistance in conducting the screenings. The residences of three of the four students whose personal belongings were found to have mercury vapor greater than 10,000 ng/m3 were evaluated. None were found to have mercury vapor readings requiring additional remediation; however, additional personal belongings were removed from two of the residences, as they were found to have mercury vapor readings greater than 10,000 ng/m3. Residential screenings for the remaining 12 students will continue on March 28, 2019 as prioritized by CDPH. Personal vehicles of two Camras Elementary School staff members were also screened and were found to have no elevated mercury vapor readings.

CPS has hired a cleanup contractor to conduct remediation of any affected classrooms/areas of the school. Cleanup operations are underway and are anticipated to continue through the weekend. CPS has requested EPA's continued technical assistance as well as support with post-remediation confirmation/clearance sampling. At present four classrooms and the cafeteria have mercury vapor concentrations greater than 1,000 ng/m3. The CPS contractor is prioritizing cleanup of classrooms where elemental mercury is present. CPS will continue to have Camras Elementary School closed tomorrow, March 28th. A conference call is scheduled for mid-day tomorrow to evaluate whether the school will be partially reopened on Friday, March 30th.

Future updates will be provided via PolRep.

Media Interest: http://www.chicagotribune.com/news/local/breaking/ct-met-mercury-spill-elementary-school-20190327story.html

EPA Region 5 OSC contacts:

Kristina Miller, 312-237-5685 Dan Haag, 312-886-6906

From: Haag, Daniel < Haag. Daniel @epa.gov > on behalf of Haag, Daniel

Sent on: Thursday, March 28, 2019 3:23:15 AM

Kondreck, Robert kondreck, Robert@epa.gov; R5 ER

Notification List < R5 ER Notification List@epa.gov>

CC: Miller, Kristina <miller.kristina@epa.gov>; Maritote, John <maritote.john@epa.gov>; Mendoza,

Ramon <mendoza.ramon@epa.gov>

Subject: R5 ER Notification #3 - Camras School Mercury Spill, Chicago, Cook County, Illinois

Region 5 ER Notification #3: Camras School Mercury Spill, Chicago, Illinois (NRC Report #1241158)

Report as of: 2215 hrs CST, March 27, 2019

Overview: Students were discovered handling mercury by Chicago Public School District (CPS) staff at Camras Elementary School located at 3000 N. Mango St in Chicago, Illinois on March 26, 2019. A broken barometer was the source of the unknown amount of mercury, CPS staff discovered the students handling the mercury and contacted the Chicago Department of Public Health (CDPH) and Chicago Fire Department (CFD) for assistance in evaluating the threat. CPS, CDPH, and CFD determined the students involved in the handling of the mercury, assessed where the mercury could be tracked, and performed targeted screening prior to students leaving for the day. Elevated mercury levels were discovered in various parts of the building during the initial assessment.

On March 27, 2019, CPS temporarily closed Camras School and exercised their contingency plan where students would attend classes at nearby schools. CPS has hired a cleanup contractor to recover mercury beads and remove any residual mercury that was tracked in the school.

State, Local, and other Federal Agency Action: CDPH and CFD initially responded to the mercury spill. Illinois EPA was informed of the mercury spill. The Agency for Toxic Substances and Disease Registry (ATSDR) was contacted for technical assistance and has consulted with CDPH on clearance levels for the school classrooms as well as the students' personal belongings.

EPA Actions: OSC Kristina Miller responded with two Superfund Technical Assessment and Response Team (START) contractors around 2100 hrs on March 26, 2019 to provide technical assistance and assess various parts of the School. Elevated readings were discovered in multiple classrooms and common spaces. CDPH and CPS were notified of these areas.

On March 27, 2019, EPA deployed two OSCs and four START contractors to continue to assist CDPH and CPS in determining the extent of the mercury contamination. EPA is currently assisting CDPH and CPS to determine if mercury has migrated off-site. CPS staff identified 26 students who may have come in contact with elemental mercury. EPA and START conducted screening of those students' personal belongings (backpacks, shoes, and clothing) for mercury vapor. Personal belongings of four students were found to have elevated mercury vapor readings of greater than 10,000 ng/m3, and an additional 11 students had personal belonging with mercury vapor readings between 1,000 – 7,000 ng/m3. CDPH prioritized the residences of these students for additional screening and asked for EPA assistance in conducting the screenings. The residences of three of the four students whose personal belongings were found to have mercury vapor greater than 10,000 ng/m3 were evaluated. None were found to have mercury vapor readings requiring additional remediation; however, additional personal belongings were removed from two of the residences, as they were found to have mercury vapor readings greater than 10,000 ng/m3. Residential screenings for the remaining 12 students will continue on March 28, 2019 as prioritized by CDPH. Personal vehicles of two Camras Elementary School staff members were also screened and were found to have no elevated mercury vapor readings.

CPS has hired a cleanup contractor to conduct remediation of any affected classrooms/areas of the school. Cleanup operations are underway and are anticipated to continue through the weekend. CPS has requested EPA's continued technical assistance as well as support with post-remediation confirmation/clearance sampling. At present four classrooms and the cafeteria have mercury vapor concentrations greater than 1,000 ng/m3. The CPS contractor is prioritizing cleanup of classrooms where elemental mercury is present. CPS will continue to have Camras Elementary School closed tomorrow, March 28th. A conference call is scheduled for mid-day tomorrow to evaluate whether the school will be partially reopened on Friday, March 30th.

Future updates will be provided via PolRep.

Media Interest: http://www.chicagotribune.com/news/local/breaking/ct-met-mercury-spill-elementary-school-20190327story.html

EPA Region 5 OSC contacts:

Kristina Miller, 312-237-5685 Dan Haag, 312-886-6906

From: Mendez, Thomas <mendez.thomas@epa.gov> on behalf of Mendez, Thomas

Sent on: Friday, March 29, 2019 5:04:52 PM

R5 ER Notification List < R5 ER Notification List@epa.gov>

CC: Miller, Kristina <miller.kristina@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Maguire, Andrew <maguire.andrew@epa.gov>; Emmanouil, Stavros <emmanouil.stavros@epa.gov>; Zintak, Leonard <zintak.leonard@epa.gov>; Kondreck, Robert <kondreck.robert@epa.gov>; Mendoza,

Ramon <mendoza.ramon@epa.gov>; Maritote, John <maritote.john@epa.gov>

Subject: R5 ER Notification #4 - Camras School Mercury Spill, Chicago, Cook County, Illinois

Region 5 ER Notification #4: Camras School Mercury Spill, Chicago, Illinois (NRC Report #1241158)

Report as of: 1130 hrs CST, March 29, 2019

Overview: Students were discovered handling mercury by Chicago Public School District (CPS) staff at Camras Elementary School located at 3000 N. Mango St in Chicago, Illinois on March 26, 2019. A broken barometer was the source of the unknown amount of mercury. CPS staff discovered the students handling the mercury and contacted the Chicago Department of Public Health (CDPH) and Chicago Fire Department (CFD) for assistance in evaluating the threat. CPS, CDPH, and CFD determined the students involved in the handling of the mercury, assessed where the mercury could be tracked, and performed targeted screening prior to students leaving for the day. Elevated mercury levels were discovered in various parts of the building during the initial assessment.

The school is still currently closed and clean-up activities are being conducted by CPS contractors. CPS contractors are concentrating cleanup activities on the area of the barometer break and adjacent areas. Passive heating of the school using the schools HVAC equipment is ongoing.

State, Local, and other Federal Agency Action: CDPH and CFD initially responded to the mercury spill. Illinois EPA was informed of the mercury spill. The Agency for Toxic Substances and Disease Registry (ATSDR) was contacted for technical assistance and has consulted with CDPH on clearance levels for the school classrooms as well as the students' personal belongings.

EPA Actions: Currently three EPA OSCs and six EPA START contractors continue to assist CDPH and CPS in determining the extent of the mercury contamination. EPA is currently assisting CDPH and CPS to determine if mercury has migrated off-site. No homes have been identified as of yet at levels above recommended by CDPH. CPS staff identified 26 students who may have come in contact with elemental mercury. Screening of those students' personal belongings (backpacks, shoes, and clothing) has shown some elevated levels for mercury vapor. These items have been isolated and will be treated by heating and venting in an effort to clear them of contamination and/or disposal.

CPS's contractor continues to conduct remediation of affected classrooms/areas of the internal structure of the school. CPS has maintained the request of EPA's continued technical assistance as well as support with post-remediation confirmation/clearance sampling. EPA will conduct a joint screening with the CPS contractor of the affected rooms in the early afternoon of March 29th, 2019 to reassess the current levels. A meeting for parents, with no media present will be held at 16:30 hrs on March 29th, 2019. EPA will be present to discuss their completed screening activities at this meeting as well as anticipated activities.

Future updates will be provided via PolRep.

Media Interest:

https://chicago.suntimes.com/news/mercury-spill-school-camras-elementary-chicago-public-schools/ (incorrectly states thermometer)

http://www.chicagotribune.com/news/local/breaking/ct-met-mercury-spill-elementary-school-20190327-story.html

EPA Region 5 OSC contacts:

Kristina Miller, 312-237-5685 Dan Haag, 312-886-6906 Ramon Mendoza, 312-802-1409

Sent on: Tuesday, April 2, 2019 1:37:38 PM

To: Haag, Daniel < Haag. Daniel@epa.gov>; Miller, Kristina < miller.kristina@epa.gov>

Non-Responsive CC:

RE: Modified 8-Hour Results **Subject:**

Attachments: Modified 8-Hour Hg Screening.xlsx (30.83 KB)

Correct version attached.

Non-Responsive

From: Non-Responsive

Sent: Tuesday, April 2, 2019 08:03

To: Haag, Daniel haag.daniel@epa.gov; 'Miller, Kristina' <miller.kristina@epa.gov>

Non-Responsive

Subject: Modified 8-Hour Results

See attached for the modified 8-hour results, and all the spot check clearance screening results.

The 8-hour continuous screening clearance files will be available after the current run is completed.

Thanks.

-Responsive

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(i)

From: Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Sent on: Thursday, March 28, 2019 7:34:43 PM

Non-Responsive Non-Responsive CC:

Subject: Re: Summary of EPA Mercury Screening at Camras

Hi all,

We've confirmed that all readings should be in ng. Sorry for the confusion.

Thank you,

Kristina Miller

On-Scene Coordinator

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604 Office: (312) 353-1057 Fax: (312) 692-2406 Cell: (312) 237-5685 Miller.Kristina@epa.gov

Non-Responsive

Can we confirm the measurements on:

Page 61 Page 104 Page 115

They jump from nano to milligrams and micorgrams. That may be the case, but I just want to confirm. Thanks

From: Miller, Kristina < miller.kristina@epa.gov >

Non-Responsive 28, 2019 10:17 AM

To:

Cc: Ribordy, Michael <ri>horries, Samuel

horries.samuel@epa.gov>; Mendoza, Ramon <mendoza.ramon@epa.gov>; Haag, Daniel < Haag, Daniel@epa.gov>; Johnson, Mark < johnson.mark@epa.gov>;

Non-Responsive

Non-Responsive

Non-Responsive

Subject: Summary of EPA Mercury Screening at Camras

Non-Responsive

Please find the attached summary of EPA's mercury screening at Camras Elementary School. As a reminder, the clearance level that has been set by CDPH is 1000 ng/m3 a child's breathing space.

Please let me know if you have any questions.

Thank you,

Kristina Miller

On-Scene Coordinator

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Chicago, IL 60604

(312) 353-1057 (office)

(312) 237-5685 (cell)

Miller.Kristina@epa.gov

From: Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Sent on: Saturday, March 30, 2019 12:37:28 AM

To: R5 ER Notification List < R5 ER Notification List@epa.gov>

CC: Haag, Daniel Haag.Daniel@epa.gov; Maguire, Andrew Haag.daniel@epa.gov; Emmanouil,

Stavros <emmanouil.stavros@epa.gov>; Zintak, Leonard <zintak.leonard@epa.gov>; Kondreck, Robert <kondreck.robert@epa.gov>; Mendoza, Ramon <mendoza.ramon@epa.gov>; Maritote,

John <maritote.john@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>

Region 5 ER Notification #5: Camras School Mercury Spill, Chicago, Illinois **Subject:**

Attachments: Photo1.jpg (102.08 KB), Photo2.jpg (1.28 MB)

Region 5 ER Notification #5: Camras School Mercury Spill, Chicago, Illinois (NRC Report #1241158)

Report as of: 1900 hrs CST, March 29, 2019

Overview: Students were discovered handling mercury by Chicago Public School District (CPS) staff at Camras Elementary School located at 3000 N. Mango St in Chicago, Illinois on March 26, 2019. A broken barometer was the source of the unknown amount of mercury. CPS staff discovered the students handling the mercury and contacted the Chicago Department of Public Health (CDPH) and Chicago Fire Department (CFD) for assistance in evaluating the threat. CPS, CDPH, and CFD determined the students involved in the handling of the mercury, assessed where the mercury could be tracked, and performed targeted screening prior to students leaving for the day. Elevated mercury levels were discovered in various parts of the building during the initial assessment.

The school is still currently closed and clean-up activities are being conducted by CPS contractors. CPS contractors are concentrating cleanup activities on the area of the barometer break and adjacent areas. Passive heating of the school using the schools HVAC equipment is ongoing.

State, Local, and other Federal Agency Action: CDPH and CFD initially responded to the mercury spill. Illinois EPA was informed of the mercury spill. The Agency for Toxic Substances and Disease Registry (ATSDR) was contacted for technical assistance and has consulted with CDPH on clearance levels for the school classrooms as well as the students' personal belongings.

EPA Actions: Currently three EPA OSCs and six EPA START contractors continue to assist CDPH and CPS in determining the extent of the mercury contamination. Today, EPA screened lockers, prioritizing those of the students that handled the mercury. Screening of the playground continued, with no elevated readings detected to date. CDPH and START entered the hot zone(s) to conduct a more thorough assessment of the current status of the highly impacted areas. Cleanup of those areas is still underway and no clearance sampling has been conducted. EPA continued to screen homes of students that showed elevated readings in their screened personal items. EPA is also continuing to heat and vent personal items.

CPS hosted a parent meeting after school on March 29, 2019. The meeting provided an update for parents on the sequence of events on the day of the spill, response actions taken to date, and provided health information. The panel included CPS, EPA, CDPH, and the Chicago Fire Department. Parents were given the opportunity to ask questions during the meeting as well as one on one with officials after. ATSDR also attended the meeting but did not sit on the panel. Approximately 70 people attended the meeting. EPA was available to conduct screening of any personal items from students using a Lumex outside of the building. Following the screenings, EPA identified a personal item that warrants further follow up with a home visit.

Media Interest:

No press were on site for the meeting, however EPA did a phone interview.

Previous coverage:

https://chicago.suntimes.com/news/mercury-spill-school-camras-elementary-chicago-public-schools/ (incorrectly states thermometer)

http://www.chicagotribune.com/news/local/breaking/ct-met-mercury-spill-elementary-school-20190327-story.html

EPA Region 5 OSC contacts:

Kristina Miller, 312-237-5685 Dan Haag, 312-886-6906 Ramon Mendoza, 312-802-1409

Thank you,

Kristina Miller **On-Scene Coordinator**

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (SE-5J)

Sent on: Friday, March 29, 2019 9:47:23 PM

To: Haag, Daniel <Haag.Daniel@epa.gov>; Miller, Kristina <miller.kristina@epa.gov>

CC:

Subject: Side by Side Survey Data from 3/29/19

Attachments: MarvinCamrasSchool HgMonitoring Survey Log 3-28-19.xlsx (25.48 KB)

All,

Attached is the excel doc with the side by side survey data conducted by Start Contractor and myself this afternoon of some of the projected areas to be worked on over the weekend and/or currently being cleaned by SET Environmental (See 3/29/19 Side by Side Excel Tab).

Thank you all for your great work and assistance with trying to get the school open ASAP. I will be back on site tomorrow at 8AM. Please feel free to reach out to me with any questions.

Non-Responsive

Non-Responsive

Sent: Friday, March 29, 2019 10:09 AM

To: 'Haag.daniel@epa.gov'; 'Miller.kristina@epa.gov' Subject: FW: Link to ATSDR materials on Mercury

Below is the link provided by Non-Responsive The Community Section sections are the factsheets being discussed. This link referring to the community sections FAQs are currently being reviewed by Non-Responsive Non-Responsive

Non-Responsive

From: Mendoza, Ramon [mailto:mendoza.ramon@epa.gov]

Sent: Thursday, March 28, 2019 9:21 PM

Non-Responsive

Subject: Fwd: Link to ATSDR materials on Mercury

Fact sheets mercury

Sent from my iPhone

Begin forwarded message:

Non-Responsive

Date: March 28, 2019 at 9:14:49 PM CDT

To: Ramon Mendoza < mendoza.ramon@epa.gov >, Kristina Behnke < behnke.kristina@epa.gov >

Subject: Link to ATSDR materials on Mercury

https://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=24

Get Outlook for iOS

Miller, Kristina <miller.kristina@epa.gov> From: Thursday, March 28, 2019 3:17:06 PM Sent on:

Non-Responsive To:

CC:

Ramon <mendoza.ramon@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Johnson, Mark <iohnson mark@ena.gov>: Non-Responsive

Non-Responsive

Subject: Summary of EPA Mercury Screening at Camras Attachments: Lumex Screening 032719 032819.pdf (680.59 KB)

Good morning

Please find the attached summary of EPA's mercury screening at Camras Elementary School. As a reminder, the clearance level that has been set by CDPH is 1000 ng/m3 a child's breathing space.

Please let me know if you have any questions.

Thank you,

Kristina Miller

On-Scene Coordinator U.S. Environmental Protection Agency 77 W. Jackson Blvd. (SE-5J) Chicago, IL 60604 (312) 353-1057 (office) (312) 237-5685 (cell)

Miller.Kristina@epa.gov

Thursday, March 28, 2019 1:03:00 PM Sent on:

To: Haag, Daniel < Haag. Daniel@epa.gov>; Miller, Kristina < miller.kristina@epa.gov>

CC: Non-Responsive

Summary of Lumex Screening values for each classroom **Subject:** Attachments: Lumex Screening_032719_032819.pdf (680.59 KB)

Hi Dan and Kristina,

Attached is a combined PDF of all the rooms we screened during yesterday, last night, and this morning. Objects that had elevated screening levels had pictures taken. Pictures were also taken of areas that needed specificity for where the screening was conducted that had elevated levels (i.e. the water fountain area as an example).

Let me know if there's any questions.

Thanks.

Ion-Responsive

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From: Miller, Kristina <miller.kristina@epa.gov> on behalf of Miller, Kristina

Friday, April 5, 2019 3:50:24 PM Sent on:

To: <u>lon-Responsive</u> CC:

Subject: UPDATED- Camras Personal Items Screening

Attachments: Mercury Screenings For Student Articles Updated 040519.xlsx (19.21 KB)

Hello all,

Please use the attached spreadsheet (updated version) of personal items screened.

Non-Responsive

As we discussed, we did our best to document as well as we could without risking spreading the mercury contamination from the items. Items to be returned are in office 009F.

Thank you,

Kristina Miller

On-Scene Coordinator U.S. Environmental Protection Agency 77 W. Jackson Blvd. (SE-5J) Chicago, IL 60604

(312) 353-1057 (office) (312) 237-5685 (cell)

Miller.Kristina@epa.gov